

```
import java.util.* Scanner;  
class Student  
{  
    String name;  
    String usn;  
    int credits[] = new int [5];  
    int marks [] = new int [5]  
    double sgpa = 0.0;  
    double cgpa = 0;  
    int grade [] = new int [5];  
    double calculate (int m[], int c[] )  
    {  
        int j;  
        double sum = 0.0;  
        int div = 0;  
        for (j=0; j<5; j++)  
        {  
            if (m[j] != 100)  
            {  
                grade [j] = 10;  
            }  
            div = credits [j] + div;  
            sum = sum + (grade [j] * credits [j]);  
            System.out.println ("grade of subject " + (j+1) + " :  
                                grade[j]");  
        }  
        Sgpa = sum / div;  
        System.out.println ("SGPA " + sgpa);  
        return sgpa;  
    }  
    double calcgpa (double sgpa 1, double sgpa 2)  
    {  
        cgpa = (sgpa 1 + sgpa 2) / 2  
        return cgpa; }  
}
```



void input ()

{

Scanner sc = new Scanner (System.in)

System.out.println ("Now enter subject credits for semester 4);  
int i;

for (i = 0; i < 5; i++)  
{

credits [i] = sc.nextInt ();  
}

System.out.println ("Now enter subject marks for semester 4);

for (i = 0; i < 5; i++)  
{

mark [i] = sc.nextInt ();

}

}

Public static void main (String args []) {

Scanner sc1 = new Scanner (System.in);

System.out.println ("Enter number of students: ");

int n = sc1.nextInt ();

Student obj [n] = new Student [n];

int k;

for (k = 0; k < n; k++)  
{

obj [k] = new Student ();

System.out.println ("enter student name ");

name = sc1.next ();

obj [k] = input ();

System.out.println ("semester 1 ");

double result = obj [k].calculate (obj [k].marks,  
obj [k].credits);

System.out.println ("1st semester GPA for " +  
obj [k].name + " (" + obj [k].usr

```
System.out.println("semester 2 ");
obj[k].input();
double result 2 = obj[k].calculate(obj[k].marks,
    obj[k].credits);
System.out.println("2nd semester SCGPA for " +
    obj[k].usn + " is: " + result);
System.out.println("CGPA for 1st year is: " +
    obj[k].cgpa);
    }
    }
}
```

```
Obj[k] = new student();
System.out.println("Enter student name: ");
String name = sc1.next();
System.out.println("Enter student usn: ");
String usn = sc1.next();
```

Seen  
execute



Output:

Enter name :

abhi

Enter usn :

123456

Now enter subject credits for semester

3

3

3

3

3

3

3

3

Now enter marks for each semester,

100

100

100

100

100

100

100

100

Semester 1

Grade for subject 1: 10

Grade for subject 2: 10

Grade for subject 3: 10

Grade for subject 4: 10

Grade for subject 5: 10

Grade for subject 6: 10

Grade for subject 7: 10

Grade for subject 8: 10



1st Semester SGPA is 1.0

Semester 2

Now enter subjects credits for semester

3

3

3

3

3

3

3

3

Now enter marks for each semester

100

100

100

100

100

100

100

100

Semester 2

Grade for subject 1: 1.0

Grade for subject 2: 1.0

Grade for subject 3: 1.0

Grade for subject 4: 1.0

Grade for subject 5: 1.0

Grade for subject 6: 1.0

Grade for subject 7: 1.0

Grade for subject 8: 1.0

2nd Semester SGPA is 1.0

CGPA for 1st year is 10.00